

# SB13 CARILLON POINT LTE 3C

2000 CARILLON POINT KIRKLAND, WA 98033

### VICINITY MAP



### **DRIVING DIRECTIONS**

FROM AT&T REGIONAL OFFICE, REDMOND, WA:

TAKE WA-520 W 5.0
USE THE RIGHT LANE TO TAKE THE 108TH AVE NE EXIT 0.2
USE THE RIGHT 2 LANES TO TURN RIGHT ONTO 108TH AVE NE
USE THE RIGHT 2 LANES TO TURN LEFT ONTO NORTHUP WAY 0.3
SLIGHT RIGHT ONTO LAKE WASHINGTON BLVD NE 0.9
USE THE LEFT LANE TO STAY ON LAKE WASHINGTON BLVD NE 279
TURN LEFT ONTO LAKEVIEW DR 374
TURN LEFT AT THE 1ST CROSS STREET ONTO CARILLON POINT
DESTINATION WILL BE ON THE RIGHT 184

2000 CARILLON POINT KIRKLAND, WA 98033

### SITE INFORMATION

### PROJECT DESCRIPTION:

AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY BY REPLACING (3) EXISTING PANEL ANTENNAS (1 PER SECTOR) WITH (3) NEW PANEL ANTENNAS (1 PER SECTOR), AUTHOR (3) EXISTING DISTRIBUTION UNITS WITH (3) NEW DISTRIBUTION UNITS, AND REMOVING (6) EXISTING TMA'S (2 PER SECTOR), ON AN EXISTING ROOFTOP PENTHOUSE WALL. ATAT ALSO PROPOSES TO ADD NEW LTE EQUIPMENT, (1) CONVERTOR SHELF WITH (4) CONVERTOR MODULES, AND A SUPPRESSION KIT TO CONVERT EXISTING DOE UNIT TO DE12 ON AN EXISTING EQUIPMENT RACK WITHIN AN EXISTING AT&T EQUIPMENT ROOM LOCATED AT THE LOWER LEVEL PARKING GARAGE.

### **CODE INFORMATION:**

ZONING CLASSIFICATION: COMMERCIAL (PLA 15A)
BUILDING CODE: 2009 IBC

CONSTRUCTION TYPE: IIB
OCCUPANCY: U, S-2

JURISDICTION: CITY OF KIRKLAND

PROPOSED BUILDING USE: UNMANNED TELECOMMUNICATIONS FACILITY

### SITE LOCATION:

LATITUDE: 47.39'19"N (47.655277')

LONGITUDE: 122'12'22"W (-122.206111')

TOP OF STRUCTURE (AGL): 67'-7" (TOP OF STRUCTURE)

BASE OF STRUCTURE (AMSL): 21.3'

PARCEL NUMBER(S):

172505-9058

### **GENERAL INFORMATION:**

- 1. PARKING REQUIREMENTS ARE UNCHANGED
- 2. TRAFFIC IS UNAFFECTED
- 3. SIGNAGE IS NOT PROPOSED

### LEGAL DESCRIPTION

POR GL 1 & 2 & BLKS F & G OF THE 2ND SUPL PLAT OF LK WN SH LDS TGW 2ND CL SHLDS ADJ ALL LY WLY OF W MGN LK WN BLVD-LESS POR N OF S LN OF N 1076.80 FT SD GL 1 & ITS WLY PROD - LESS POR THOF S OF LN BEG AT NXN 1902.66 FT S & PLW N LN GL 1 & W MGN LK WN BLVD TH S 03-09-13 E ALG W MGN 75 FT TO TOB OF DESC LN TH N 88-35-53 W TO INNER HARBOR LN & TERMINUS THIS LN - LESS POR CONV BY REC 8907281497 AKA LOT B KK ALT LL #LL-91-50 REC 9104302101

### PROJECT CONTACTS

### APPLICANT:

NEW CINGULAR WIRELESS PCS, LLC (AT&T) 16221 NE 72ND WAY, RTC 3 P.O. BOX 97061 REDMOND, WA 98052

### PROJECT ENGINEER:

GLOTEL, INC 15375 SE 30TH PL, SUITE 160 BELLEVUE, WA 98007 CONTACT: RYAN MCDANIEL, P.E. PHONE: (425) 984-3762

### PROJECT MANAGER:

MASTEC NETWORK SOLUTIONS CONTACT: PERI TOBIN

### PROPERTY OWNER:

CARILLON PROPERTIES W BLVD 1200 CARILLON POINT KIRKLAND, WA 98033

### SITE ACQUISITION:

GLOTEL, INC 15375 SE 30TH PL, SUITE 160 BELLEVUE, WA 98007 CONTACT: CRAIG COMMERFORD PHONE: (425) 247-6149

### PERMITTING:

GLOTEL, INC 15375 SE 30TH PL, SUITE 160 BELLEVUE, WA 98007 CONTACT: GIBRAN HASHMI PHONE: (206) 372-1850

### CONSTRUCTION MANAGER:

MASTEC NETWORK SOLUTIONS CONTACT: RON EVENSON PHONE: (253) 246-4348

## 100% 3C CONSTRUCTION DRAWING REVIEW

### DRAWING INDEX

T-1 TITLE SHEET
 G-1 GENERAL NOTES
 A-1 SITE PLAN

A-2 ROOF PLAN
A-3 EXISTING & PROPOSED EQUIPMENT PLAN

GROUND DETAILS

A-4 EXISTING & PROPOSED SOUTH ELEVATIONS
A-5 EXISTING & PROPOSED NORTH ELEVATIONS

A-6 ANTENNA DETAILS

RF-1 ANTENNA CONFIGURATIONS

E-1 GROUNDING SCHEMATIC

| | |

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE ENGINEER AND CARRIER OF ANY ERRORS OR OMISSIONS.

### APPROVAL/SIGN OFF

CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE	AT&T SIGN OFF	DATE	SIGNATURE				
CONSTRUCTION MANAGER			RF ENGINEER						
LANDLORD'S REPRESENTATIVE			INTERCONNECT						
PROJECT MANAGER			OPERATIONS						
SITE ACQUISITION			COMPLIANCE						
PERMITTING			CONSTRUCTION MANAGER						
			PROJECT MANAGER						
REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED									



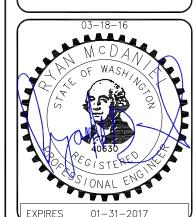




RFDS: V 3.0 DATED: 02/23/16

SB13
CARILLON POINT

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		REVISIONS	
REV.	DATE	DESCRIPTION	BY
Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF
0	03/18/16	ISSUED FOR 100% CD REVIEW	JPH

TITLE TITLE SHEET

SHEET

T-1

GLOTEL PROJECT #:

### LIMITS OF LIABILITY:

GLOTEL HAS MADE EVERY FEFORT TO CREATE COMPLETE AND ACCURATE GLOTEL HAS MADE EVERY EFFORT TO CREATE COMPLETE AND ACCURATE CONTRACT DOCUMENTS WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF THEIR COMPLETION. CONTRACTORS ARE CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE CONTRACT DOCUMENTS MAY OCCUR AND SHALL NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THE DOCUMENTS. REFERENCE ADMINISTRATIVE REQUIREMENTS.

### CONTRACT DOCUMENTS:

- THE CONTRACT DOCUMENTS INCLUDE THE AGENCY APPROVED PROJECT SPECIFICATIONS, PLANS, AND THEIR LATEST REVISIONS, ADDENDA, AND CLARIFICATIONS. THE CONTRACT DOCUMENTS MAY ALSO INCLUDE NETWORK CARRIER STANDARDS FOR INSTALLATION OF
- THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE SET OF CONTRACT DOCUMENTS ON FILE IN THE PROJECT OFFICE AT THE JOB SITE. COPIES OF THE PROJECT DOCUMENTS USED BY SITE STAFF SHALL BE UP TO DATE WITH THE PROJECT OFFICE COPY.
- 3. THE CONTRACTOR SHALL NOTIFY THE PROJECT TEAM OF ANY ERRORS, OMISSIONS, AND INCONSISTENCIES FOUND IN THE CONTRACT DOCUMENTS. THE NOTIFICATION SHALL BE GIVEN BOTH VERBALLY AND IN WRITING WITHIN 24 HOURS OF DISCOVERY.
- 4. IF AN ERROR OR OMISSION IN THE PROJECT DOCUMENTS REQUIRES RECTIFICATION, THE CONTRACTOR SHALL SUBMIT A PROPOSAL TO THE PROJECT TEAM TO RECTIFY THE ISSUE. THE PROPOSAL MUST BE
- 5. THE CONTRACT DRAWINGS ARE PREPARED TO SCALE WITH THE BEST KNOWLEDGE OF THE SITE GIVEN TO GLOTEL. WHERE DIMENSIONS ARE NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHOULD CLARIFY WITH THE PROJECT TEAM WHEN THE INFORMATION IS CRITICAL TO PROPER INSTALLATION
- WHEN FABRICATION OF STRUCTURAL ITEMS ARE REQUIRED, IT MAY BE NECESSARY TO SUBMIT SHOP DRAWINGS FOR REVIEW BY GLOTEL SEE STRUCTURAL NOTES.
- DEFERRED SUBMITTALS ARE REQUIRED FOR MATERIALS TO BE PROVIDED BY THE CONTRACTOR. WHERE MATERIALS IN THE PLANS ARE DESIGNATED AS PROVIDED BY CONTRACTOR, THE CONTRACTOR SHALL SUBMIT THE PREFERRED MATERIAL TO THE PROJECT TEAM FOR REVIEW AND APPROVAL PRIOR TO WORK

### ADMINISTRATIVE REQUIREMENTS:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED (INCLUDING FEES) TO COMPLETE THE WORK DESCRIBED BY THE CONSTRUCTION DOCUMENTS.
- PRIOR TO BIDDING THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE PROJECT SITE AND CONTRACT DOCUMENTS TO UNDERSTAND THE DESIGN AND CONDITIONS AFFECTING THE WORK TO BE PERFORMED. ANY ERRORS, OMISSIONS, AND DISCREPANCIES MUST BE SUBMITTED TO THE PROJECT TEAM VERBALLY AND IN WRITING.
- 3. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR WORK FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP. ALL ROOFING AND WATERPROOFING MUST BE WARRANTED FOR A PERIOD OF TWO YEARS. THE PERIOD BEGINS AT SUBSTANTIAL COMPLETION OF
- 4. THE CONTRACTOR SHALL PROVIDE A COPY OF LICENSE AND INSURANCE TO THE TELECOMMUNICATIONS CARRIER.

### SITE SAFETY:

- THE CONTRACTOR SHALL PROVIDE OSHA COMPLIANT PROTECTION FOR THE SAFETY OF THE SITE STAFF AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- 2. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM DIRT AND DEBRIS. SURFACES SHALL BE CLEANED OF GREASE, PAINT, OR OTHER MATERIALS NOT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- 3. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF THE PROJECT SITE AREA.
- 5. WHERE WORK REQUIRES OPEN HAZARDS TO SITE STAFF, THE HAZARD SHALL BE TEMPORARILY MITIGATED TO OSHA STANDARD UNTIL THE HAZARD IS CLOSED.
- 6. SEE STRUCTURAL NOTES.

### UTILITY REQUIREMENTS:

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES.
- 2. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO WORK.
- 3. CONTRACTOR TO PROTECT, REPLACE AND/OR REROUTE ANY EXISTING UTILITIES ENCOUNTERED DURING THE COURSE OF WORK.

### SPECIAL CONSIDERATIONS FOR WEATHERPROOFING:

- ALL PENETRATIONS TO EXISTING STRUCTURES MUST BE SEALED WITH APPROVED WEATHERPROOFING. IF WEATHERPROOFING IS OMITTED, CONTACT THE PROJECT TEAM FOR CLARIFICATION OR PROVIDE A WEATHERPROOFING PROPOSAL FOR APPROVAL.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND THE EXISTING ROOFING CONTRACTOR OF RECORD FOR ANY AUGMENTATION TO THE ROOF MEMBRANE, AND HAVING THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S EXISTING WARRANTY.

### WORK REQUIREMENTS:

- 1. ALL WORK MUST BE PERFORMED DURING THE OWNERS PREFERRED
- 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER
- 3. ALL WORK PERFORMED ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. SEE STRUCTURAL
- 4. IE INSPECTION OF WORK IS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE INSPECTION ENTITY 24 HOURS IN ADVANCE OF THE WORK TO BE PERFORMED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES. REFERENCE UTILITIES
- THE CONTRACTOR SHALL COORDINATE ON—SITE STORAGE WITH OWNER IN ADVANCE OF WORK. PERMITS MAY BE REQUIRED FOR STORAGE ON PUBLIC RIGHT OF WAY.
- 7. ALL NEW CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE CONSTRUCTION DOCUMENTS.
- 8. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING WORK FROM DAMAGE DURING THE COURSE OF WORK FOR THIS
- 9. THE CONTRACTOR SHALL PROVIDE WORK WHICH IS LEVEL, PLUMB, AND WITHIN TOLERANCES SPECIFIED BY CODES AND STANDARDS INCLUDED IN THE STRUCTURAL NOTES.
- 10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE
- 11. ANY SUBSTITUTIONS OF MATERIALS MUST BE APPROVED BY THE
- 12. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS INCIDENTAL TO THE WORK DESCRIBED BY THE CONTRACT DOCUMENTS.
- 13. THE CONTRACTOR MUST RESTORE ALL PORTIONS OF THE PROJECT SITE TO IT'S PRE-WORK CONDITION. WHERE THE WORK PERFORMED DOES NOT ALLOW FOR PRE-WORK RESTORATION, WORK AREAS MUST BE REPAIRED OR REPLACED TO MATCH EXISTING FINISH AND SITE
- 14. THE CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL OF DEBRIS AND ITEMS WHICH ARE SPECIFIED TO BE REMOVED IN THE COURSE OF

### CAST-IN PLACE CONCRETE:

- 1. ALL CONCRETE DESIGN DESCRIBED BY THIS SET OF DRAWINGS IS
- 2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. UNLESS SPECIFIED OTHERWISE.
- 3. EACH CONCRETE MIX DESIGN SHALL HAVE A CYLINDER TEST HISTORY EACH CONCRETE MIX DESIGN SHALL HAVE A CYTINDER TEST HISTORY OF 60 DAY'S MINIMUM, TESTED IN ACCORDANCE WITH ASTM C39, TESTED BY AN ACI CERTIFIED STRENGTH TESTING TECHNICIAN, AND THE STRENGTH STATISTICALLY DETERMINED IN ACCORDANCE WITH ACI 318. EACH MIX DESIGN USED ON SITE SHALL BE SUBMITTED TO, AND RECEIVED BY THE PROJECT TEAM BEFORE THE CONCRETE IS PLACED
- 4. RAW MATERIALS, MANUFACTURE, AND DELIVERY TO THE FORMWORK SHALL BE IN ACCORDANCE WITH ASTM C94 AND ACI 318.
- 5. EMBEDDED ITEMS ARE TO BE SECURELY FASTENED SO THAT THEY DO NOT MOVE DURING PLACEMENT OF THE CONCRETE. REFERENCE THE REINFORCING STEEL SECTION.
- 6. TWO CYLINDERS SHALL BE TAKEN FOR EACH LOAD DELIVERED TO THE FORMWORK. SAMPLES ARE TO BE TAKEN FROM THE CONCRETE AS IT IS PLACED IN THE FORMWORK IN ACCORDANCE WITH ASTM C172. CYLINDERS ARE TESTED PER ASTM C39 AND TESTED BY AN ACI CERTIFIED CSTT. CONCRETE SAMPLES ARE TO BE TESTED FOR AIR CONTENT AND WAITER CEMENT RATIO. ALL TEST RESULTS ARE SUBMITTED TO THE PROJECT TEAM WITHIN ONE MONTH OF PLACING THE CONCRETE ON SITE.
- 7. WHEN AMBIENT TEMPERATURES FALL BELOW 55 DEGREES FAHRENHEIT. WHEN AMBIENI I LEMPERATURES FALL BELOW 50 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 306. WHEN AMBIENT TEMPERATURES RISE ABOVE 90 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 305. THE CONCRETE SHALL BE PROTECTED FROM FREEZING OR FROM EXCESSIVE HEAT WITH TENTS OR BLANKETS TO PROVIDE FOR HEAT OR MONEYURE LOSS.
- ALL CONCRETE SHALL BE PLACED AS CLOSE TO PRACTICAL TO THE FINAL DESTINATION IN THE FORM. CONCRETE SHALL NOT BE PLACE FROM A HEIGHT GREATER THAN 6 FEET FROM THE POINT OF PROJECT OF THE PROPERTY OF THE P
- 9. VIBRATION SHALL BE USED TO CONSOLIDATE CONVENTIONAL CONCRETE. EXTERNAL STINGER VIBRATORS SHALL BE INSERTED VERTICALLY INTO FORMS EVERY 36 INCHES MAXIMUM AND FOR EACH LIFT. STINGER VIBRATORS SHALL BE INSERTED TO A VERTICAL DEPTH OF 12 INCHES INTO PREVIOUS LIFTS TO ENSURE CONSOLIDATION. FOLLOW GUIDELINES USED IN ACI 309R.
- 10. REPAIRS FOR MINOR DEFECTS MAY BE ADMINISTERED BY AN EXPERIENCED CRAFTSMAN WITHOUT AN APPROVED PROCEDURE. A MINOR DEFECT INCLUDES BUG HOLES, HONEYCOMBING, CHIPS, AND SPALLS THAT DO NOT EXCEED ½ INCH OF DEPTH INTO THE FACE OF THE CONCRETE. MAJOR REPAIRS EXTENDING BEYOND ½ INCH OF DEPTH AND UP TO THE REINFORCING MAY BE REPAIRED WITH AN APPROVED REPAIR PROCEDURE. REPAIR PROCEDURES MAY BE SUBMITTED TO THE PROJECT TEAM FOR APPROVAL IN ADVANCE OF FIELD WORK. DAMAGE EXTENDING BEYOND STEEL REINFORCING REQUIRES A RETROFIT DESIGN OR IS REJECTED
- 11. SEE ARCHITECTURAL NOTES FOR CONCRETE FINISH REQUIREMENTS

### ABBREVIATIONS:

	<del></del>		
A/C AGL AMSL APPROX AWG BCW	AMERICAN WIRE GAGE BARE COPPER WIRE	MAX MECH MTL MFR MGR MIN MISC	MAXIMUM MECHANICAL METAL MANUFACTURE MANAGER MINIMUM MISCELLANEOUS
_DG _K LR	BUILDING BLOCKING	NA NIC NTS	NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE
: T	CLEAR COAXIAL CABLE CONCRETE CONSTRUCTION	OC OD	ON CENTER OUTSIDE DIAMETER
NT A IG	CONTINUOUS  DIAMETER DRAWING	PLYWD PROJ PROP	PLYWOOD PROJECT PROPERTY
A LEV LEC Q QUIP	EACH ELEVATION ELECTRICAL EQUAL EQUIPMENT	PT REQ RF RM RO	PRESSURE TREATED  REQUIRED RADIO FREQUENCY ROOM ROUGH OPENING
KT N LUOR	EXTERIOR FINISH FLUORESCENT	RRH RRU SHT SIM	REMOTE RADIO HEAD REMOTE RADIO UNIT SHEET SIMILAR
LR T RP	FLOOR FOOT FIBER-REINFORCED POLYMER	SPEC SF SS STL	SPECIFICATION SQUARE FOOT STAINLESS STEEL STEEL
A ALV C PS	GAUGE GALVANIZED GENERAL CONTRACTOR GLOBAL POSITIONING SYSTEM	STRUCT STD SUSP	
RND ORZ R	GROUND HORIZONTAL HOUR	THRU TMA TNNG TYP	THROUGH TOWER MOUNTED AMPLIFIER TINNED TYPICAL
HT HVAC	HEIGHT HEATING VENTILATION AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
D N NFO	INSIDE DIAMETER INCH INFORMATION	VERT VIF	VERTICAL VERIFY IN FIELD
NSUL NT BC	INSULATION INTERIOR INTERNATIONAL BUILDING CODE	W/ W/O WP	WITH WITHOUT WATER PROOF
_BS _MU _TE	POUNDS LOCATION MEASUREMENT UNIT LONG TERM EVOLUTION		

### CONCRETE SLABS ON GRADE:

- 1. SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON A 6 INCH SLAB—ON—GRADE CONSTRUCTION SHALL BE SUPPORTIED ON A 6 INCH LAYER OF CLEAN 3/4 INCH MINUS SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). SUBGRADE SHALL BE SUPPORTED ON UNDISTURED NATIVE SOIL OR PROPERLY PLACED AND COMPACTED
- 2. INTERIOR SLABS-ON-GRADE SHALL BE CAST OVER A 4 MIL VAPOR BARRIER.
- 3. PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE. JOINTS ARE TO BE INSTALLED AT 14 TO 16 FEET ON CENTER EACH WAY MAXIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL SAW CUT JOINTS IN CONCRETE SLABS ARE TO BE MADE WITH AN EARLY CUT SAW AS SOON AS POSSIBLE AFTER POURING BUT NO LATER THAN ONE HOUR AFTER FINISHING.
- 4. PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS/SPREAD FOOTINGS. JOINTS SHALL BE FORMED BY INSERTING PREFORMED JOINT FILLER FOR THE FULL DEPTH OF THE SLAB.
- 5. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACL 305 AND 306. CONTRACTOR SHALL TAKE SPECIAL CURING PRECAUTIONS TO MINIMIZE SHRINKAGE CRACKING OF CONCRETE SLABS.
- 6. THE CONTRACTOR SHALL TAKE CARE THAT HEAVY EQUIPMENT AND AREAS USED FOR STAGING DO NOT AND DAMAGE SLABS ON GRADE. DAMAGED SLABS ON SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 7. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI. UNLESS SPECIFIED OTHERWISE.

### CONCRETE OR MASONRY ANCHORAGE:

1. EXPANSION BOLTS INTO CONCRETE SHALL BE "KWIK BOLT TZ" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC—ES REPORT ESR—1917. SPECIAL INSPECTION IS REQUIRED. EXPANSION ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

### REINFORCING STEEL:

- ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE.
- REINFORCING BARS SHALL BE DEFORMED AND CONFORM TO ASTM A615 OR A706, GRADE 60. REINFORCING TIE WIRE MAY BE GRADE
- 3. REINFORCING STEEL SPLICES SHALL BE 40 BAR DIAMETERS OR TWO TRANSVERSE WIRE SPACINGS FOR WIRE MATS. 4. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318.
- 5. NO.5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
- 6. WELDING OF REBAR IS NOT ALLOWED WITHIN THE MIDDLE THIRD OF THE BAR LENGTH. WELDING OF REBAR IS CONDUCTED IN ACCORDANCE WITH AWS D1.4. USE ONLY ASTM A706 REINFORCING.
- 7. WIRE REINFORCING CONFORMS TO ASTM A82 OR A185.
- 8. CONCRETE COVER FOR REINFORCING STEEL CONFORMS TO ACL 318

### LECENIE

	- SUBJECT BOUNDARY LINE
	- RIGHT-OF-WAY CENTERLINE
	- RIGHT-OF-WAY LINE
	<ul> <li>ADJACENT BOUNDARY LINE</li> </ul>
	- SECTIONAL BREAKDOWN LINE
COAXCOAXCOAX	- COAX CABLE LINE
——FIBER ——FIBER ——	- FIBER OPTIC CABLE LINE
OHP OHP	- OVERHEAD POWER LINE
— UGP —— UGP —— UGP —	- BURIED POWER LINE
— GAS —— GAS —— GAS —	— BURIED GAS LINE
—— ОНТ ——— ОНТ ———	- OVERHEAD TELEPHONE LINE
— UGT —— UGT —— UGT —	<ul> <li>BURIED TELEPHONE LINE</li> </ul>
w w w w	— BURIED WATER LINE
— ss —— ss —— ss —	- BURIED SANITARY SEWER
— SD —— SD —— SD —	— BURIED STORM DRAIN
	- DITCH LINE/FLOW LINE
	✓ VEGETATION LINE
-x-x-x-x-x-x-x-x	- CHAIN LINK FENCE
<del></del>	- WOOD FENCE
- x - x - x - x - x - x - x	- BARBED WIRE/WIRE FENCE
△ TRANSFORMER	-Q- FIRE HYDRANT
X LIGHT STANDARD	GATE VALVE
P POWER VAULT	■ WATER METER
☑ UTILITY BOX	Q FIRE STAND PIPE
Ø UTILITY POLE	☐ CATCH BASIN, TYPE I
	CATCH BASIN, TYPE I
← POLE GUY WIRE	
POLE GUY WIRE  A GAS VALVE	- SIGN
	- SIGN  ○ BOLLARD
IDI GAS VALVE	
D GAS VALVE GAS METER	BOLLARD     MAIL BOX     MAIL BOX     MAIL BOX
GAS VALVE GAS METER T TELEPHONE VAULT	BOLLARD     MAIL BOX
GAS VALVE GAS METER T TELEPHONE VAULT	● BOLLARD  ■ MAIL BOX  ,234.21 SPOT ELEVATION
GAS VALVE GAS METER TELEPHONE VAULT DELEPHONE_RISER	● BOLLARD  ■ MAIL BOX  ,234.21 SPOT ELEVATION
D GAS VALVE GAS METER T TELEPHONE VAULT TELEPHONE_RISER	BOLLARD MAIL BOX 334.21 SPOT ELEVATION RENCE

FLEVATION REFERENCE SECTION REFERENCE

Know what's below.

CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG

CALL before you dig.

Λ

**DIG ALERT** 

REVISION

Mobility

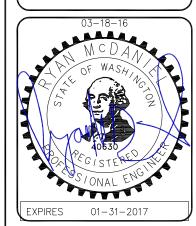




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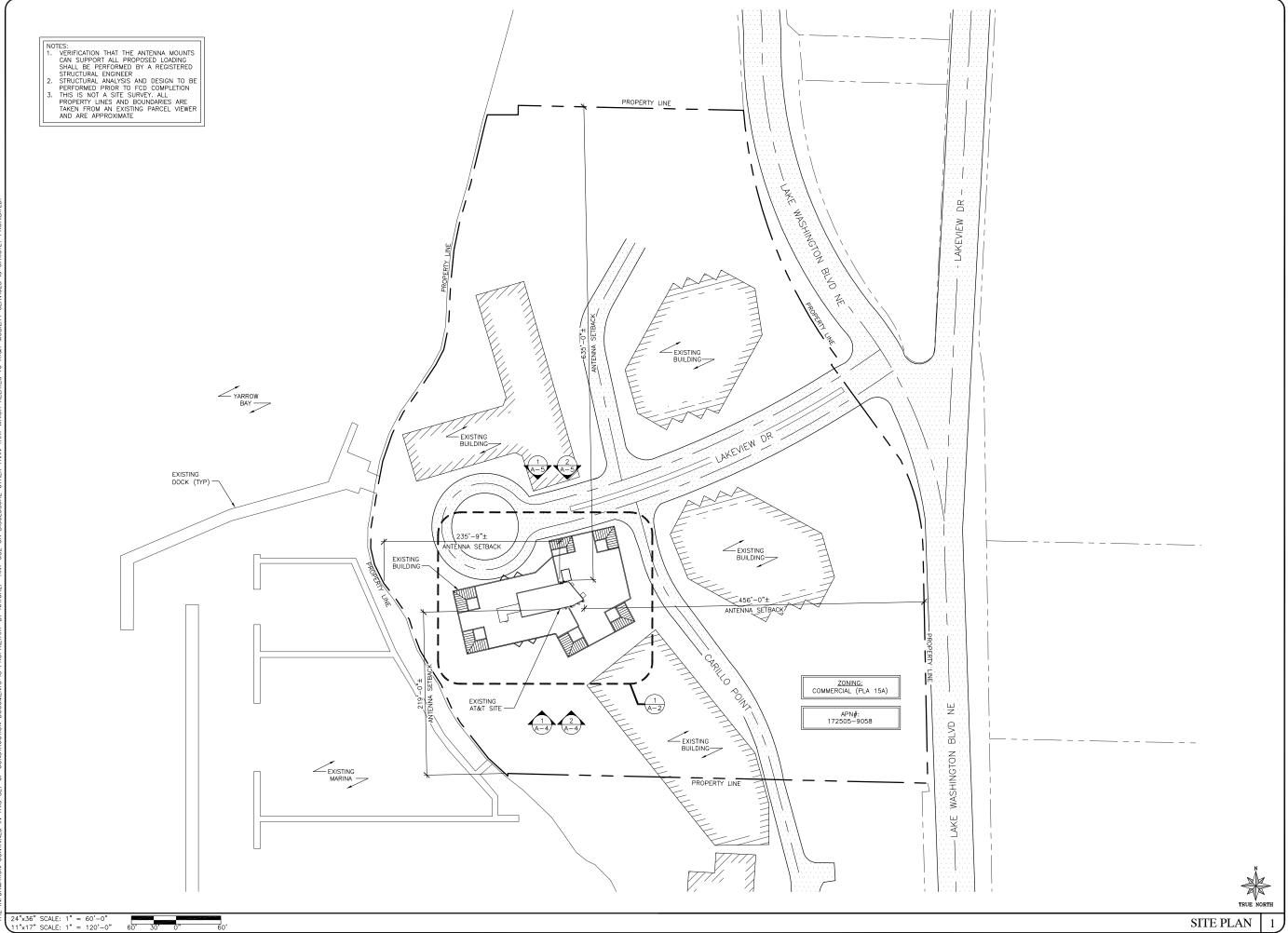
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TITLE GENERAL NOTES

SHEET

G-1

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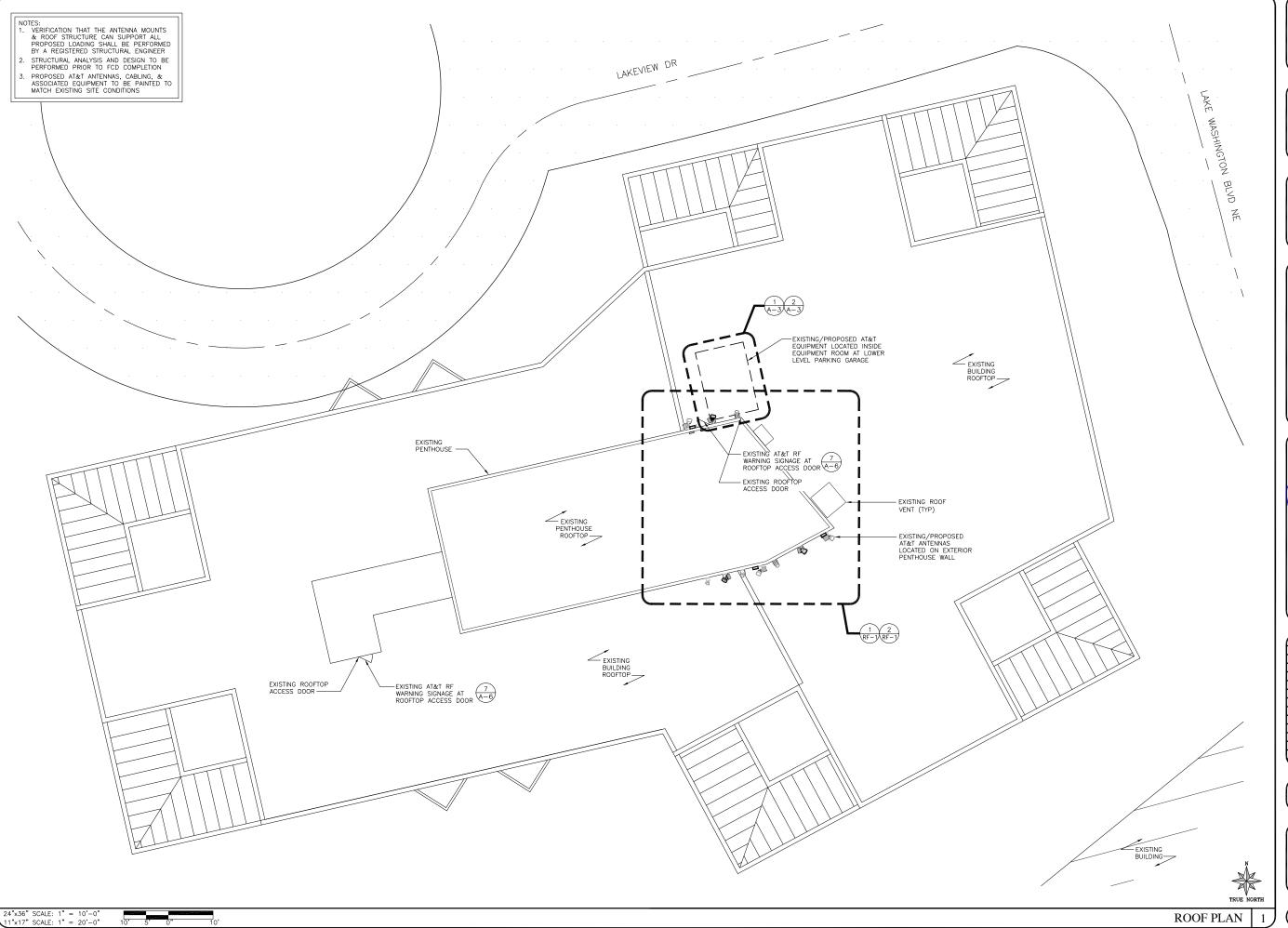


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TITLE

A-1

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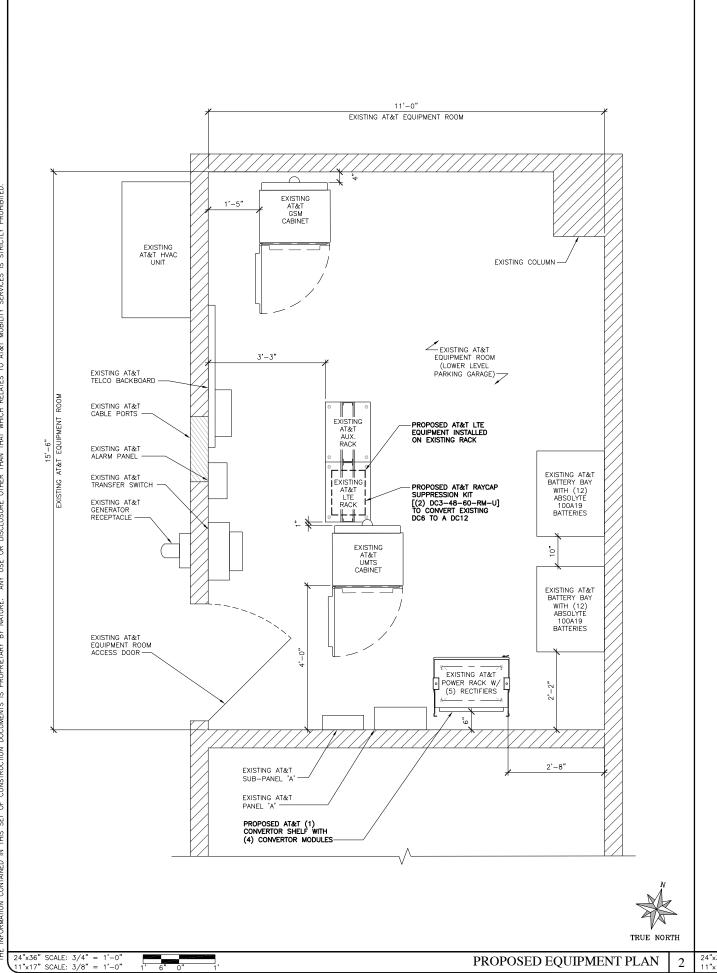
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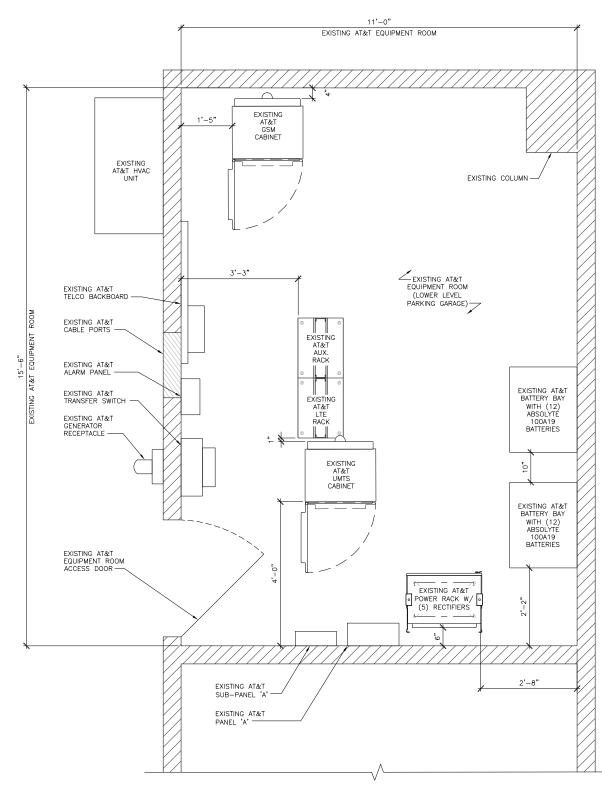
SHEET

A-2

GLOTEL PROJECT #:

ROOF PLAN





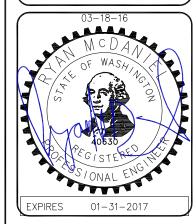






**SB13 CARILLON POINT** 

> 2000 CARILLON POINT KIRKLAND, WA 90833 KING COU NTY



		REVISIONS	
REV.	DATE	DESCRIPTION	BY
Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF
0	03/18/16	ISSUED FOR 100% CD REVIEW	JPH
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TITLE EXISTING & PROPOSED EQUIPMENT PLAN

SHEET

A-3

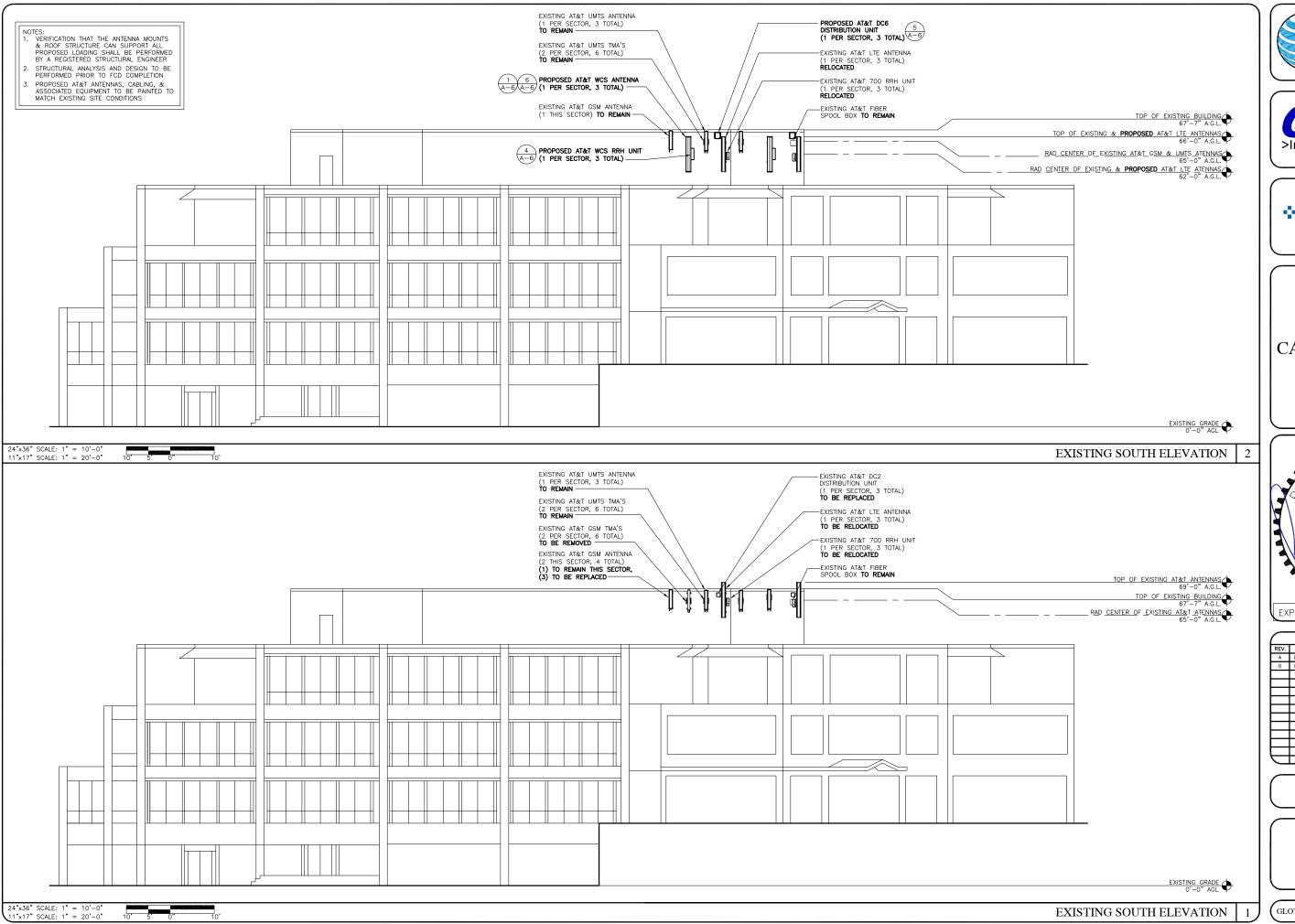
GLOTEL PROJECT #:

EXISTING EQUIPMENT PLAN

TRUE NORTH

PROPOSED EQUIPMENT PLAN

24"x36" SCALE: 3/4" = 1'-0" 11"x17" SCALE: 3/8" = 1'-0"









SB13
CARILLON POINT

2000 CARILLON POINT KIRKLAND, WA 90833 KING COU NTY



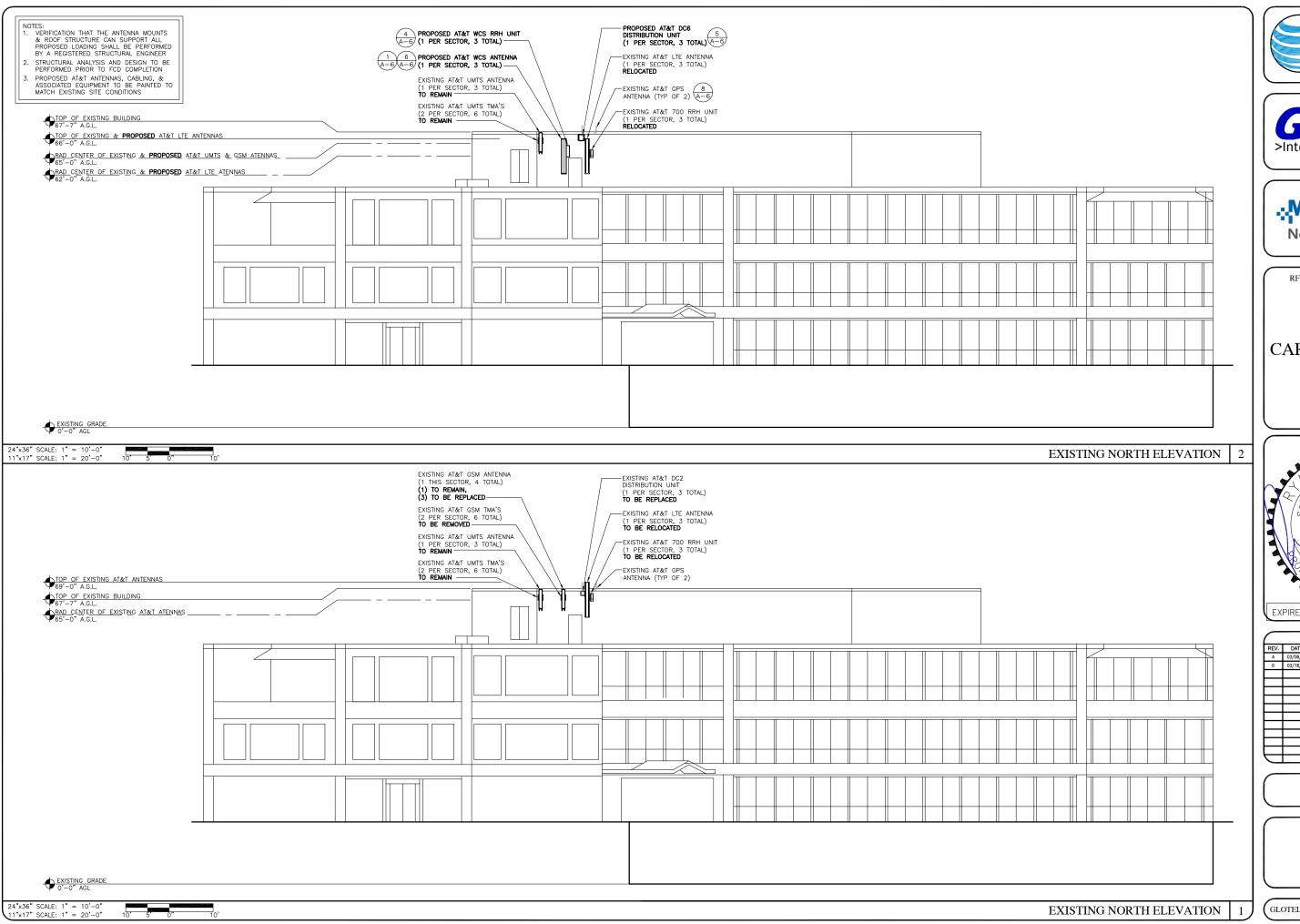
		REVISIONS	
REV.	DATE	DESCRIPTION	BY
Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF
0	03/18/16	ISSUED FOR 100% CD REVIEW	JPH

TITLE
EXISTING & PROPOSED
SOUTH ELEVATION

SHEET

4-4

GLOTEL PROJECT #:



at&t





RFDS: V 3.0 DATED: 02/23/16

SB13
CARILLON POINT

2000 CARILLON POINT KIRKLAND, WA 90833 KING COU NTY



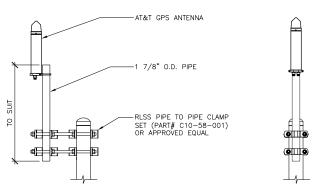
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REV.	DATE	DESCRIPTION	BY
Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF
0	03/18/16	ISSUED FOR 100% CD REVIEW	JPH

TITLE
EXISTING & PROPOSED
NORTH ELEVATION

SHEET

A-5

GLOTEL PROJECT #:



### NOTES:

- 1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
- ALL GPS ANTENNA LOCATIONS <u>MUST BE</u> ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.
- 3. PROPOSED GPS MOUNTED A MINIMUM OF 10' FROM ANY TRANSMITTING ANTENNAS
- 4. USE 1:2 GPS SPLITTER ASSEMBLY FOR LTE GPS WHEN (2) NODE-B ARE USED. (LUCENT: 408762045, KS24535L10)

GPS WITH SPLITTER

OFFICE OF THE SPLITTER SPLITT

SIGNS AND PLACEMENT:

1. LOW LEVEL BLUE NOTICE SIGNS — PLACE AT SITE ENTRY

/ ACCESS POINTS ONLY.

— ROOFTOPS: PLACE SIGNS ON THE INSIDE OF ROOF
HATCH; PLACE ON ACCESS DOOR UNLESS DOOR IS USED BY
GENERAL PUBLIC OR BUILDING TENANTS ON A REGULAR
BASIS FOR ACCESS — IN THESE CASES CONSULT
CONSTRUCTION MANAGER.

— WATER TANKS: PLACE SIGNS ON COMPOUND GATE.

— NETWORK CARRIER OWNED SITES: PLACE ONE SIGN ON
COMPOUND GATE; ALL SIGNS SHALL BE SECURED WITH
EITHER STAINLESS STEEL ZIP TIES OR STAINLESS TECH
SCREWS.

2. CONSTRUCTION COORDINATOR PARTICIPATION IN SIGN LOCATION:

NETWORK CARRIER CONSTRUCTION MANAGER SHALL MEET WITH ALL CONSTRUCTION COORDINATOR'S TO OUTLINE CRITERIA FOR SIGN PLACEMENT. EMPHASIS SHALL BE PLACED ON "CHALLENGING" SITES, WHERE THE NETWORK CARRIER CONSTRUCTION COORDINATOR'S AS MUCH GUIDANCE ON EACH SPECIFIC SITUATION AS POSSIBLE, HOWEVER, CONSTRUCTION COORDINATOR'S SHALL BE ENCOURAGED TO PARTNER WITH NETWORK CARRIER CONSTRUCTION MANAGER IN DECIDING PLACEMENT PERTAINING TO CHALLENGING SITES. A SITE VISIT MAY BE REQUIRED TO FULLLENGING SITES. A SITE VISIT MAY BE REQUIRED TO FULL REQUIREMENTS.
CONSTRUCTION COORDINATOR SHALL IDENTIFY ALL SIGN LOCATIONS AT THE A&E WALK, PLEASE SEE SIGN DETAIL AND SIZE. NETWORK CARRIER CONSTRUCTION MANAGER SHALL MEET

3. SIGN DISBURSEMENT FROM WAREHOUSE: SIGN INVENTORY SHALL BE ACCESSIBLE AT NETWORK CARRIER WAREHOUSE TO BE DISBURSED AS PART OF THE GENERAL CONTRACTOR BOM AS CALLED OUT IN A&E DRAWINGS FOR EACH SITE.



### NOTES

- INSERT SCISSOR BRACKETS BETWEEN THE UPPER ANTENNA MOUNTING BRACKET AND THE UPPER POLE ADAPTER BRACKET. SECURE USING 1/2 INCH HARDWARE PROVIDED.
- TO SET THE DEGREE OF DOWNTILT, ALIGN THE DESIRED HOLES ON THE SCISSOR BRACKETS AND SECURE USING 5/16 INCH HARDWARE

   TO SET THE DEGREE OF DOWNTILT, AND THE DEGREE OF THE DEGREE
- 3. THE NUMBER OF CONNECTORS WILL VARY BASED ON ANTENNA TYPE.

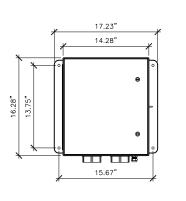


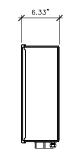
ANTENNA MOUNTING

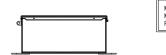
RF WARNING SIGN

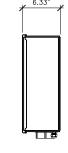
24"X36" SCALE: N.T.S.

7





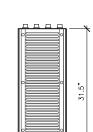


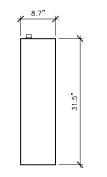


MANUFACTURER: RAYCAP MODEL: DC6-48-60-0-1E FIBER POWER CONNECTOR

DC6 DISTRIBUTION UNIT





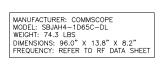


MANUFACTURER: ALCATEL LUCENT MODEL: RRH4X25-WCS WEIGHT: 70 LBS (WITHOUT MOUNTING HARDWARE)

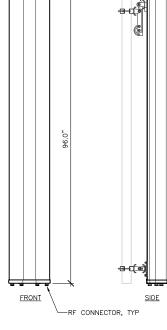
DIMENSIONS: 31.5" X 12" X 8.7

(WITH SOLAR SHIELD)

RRH UNIT 4 24"X36" SCALE: 1-1/2"=1'







MECHANICAL DOWNTILT BRACKET-

13.8"



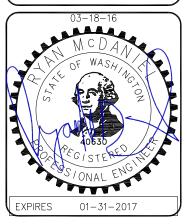




RFDS: V 3.0 DATED: 02/23/16

**SB13 CARILLON POINT** 

> 2000 CARILLON POINT KIRKLAND, WA 90833 KING COU NTY



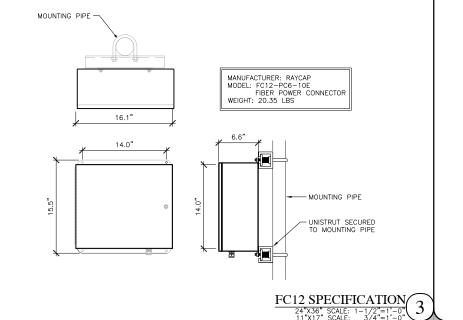
		REVISIONS	$\overline{}$
REV.	DATE	DESCRIPTION	BY
Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF
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TITLE ANTENNA DETAILS

SHEET

A-6

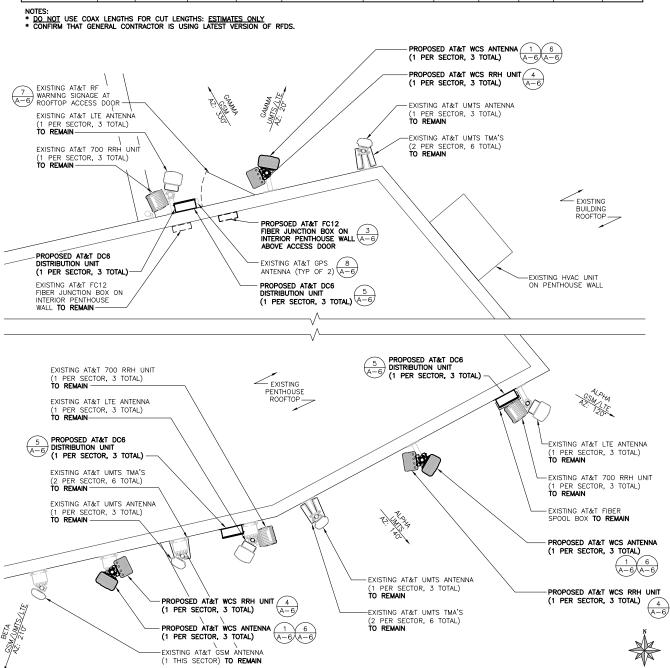
GLOTEL PROJECT #:



NOT USED 2

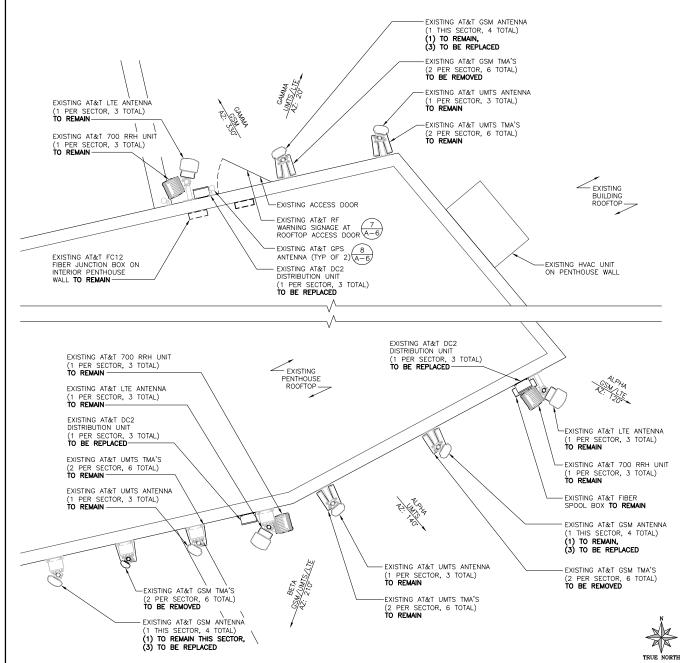
ANTENNA/ 24"X36" SCALE: 3/4" =

	·		PRC	DPOSED ANT	ENNA CONFIGURAT	TION AND SCHEDU	JLE		RFDS V	3.0 DATED 0	2/23/16	
ALPHA	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ТМА	NUMBER OF COAX	COAX ø	COAX LENGTH	DIPLEXERS	RRH	
LTE 1900	400	001	1	ALU AA	3JR52703AAAA	NONE					INTERNAL	
LTE 700	120°	62'	'	ALU AA	SURSZ/USAAAA	NONE		FIBER		-	- 1	
LTE WCS	120*	62'	1	COMMSCOPE	SBJAH4-1D65C-DL	NONE	2	7/8"	190'		1	
GSM 850	7 120	62	'	COMMSCOPE	SBJAH4-TD65C-DL	NONE	2	//°	190	_	-	
UMTS 1900	140*	65'		KATHREIN	742-264	(2) LGP-21401	2	7/8"	190'	2		
UMTS 850	7 140	65	'	KAIHKEIN	742-264	NONE	]	//°	190	2	_	
BETA	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	TMA	NUMBER OF COAX	COAX ø	COAX LENGTH	DIPLEXED	RRH	
LTE 1900	210*	62'	1	ALU AA	3JR52703AAAA	NONE				-	INTERNA	
LTE 700	7 210	62	'	ALO AA	30K32703AAAA	NONE		FIBER			1	
UMTS 1900	210*	65'	1	KATHREIN	742-264	(2) LGP-21401	2	7/8"	190'	2	_	
UMTS 850	7 210	65	'	KAIRKEIN	742-264	NONE	] -	//6	190		_	
LTE WCS	210°	62'	1	COMMSCOPE	SBJAH4-1D65C-DL	NONE		FIBER		-	1	
GSM 850	210°	65'	1	KATHREIN	739-684	NONE	2	7/8"	190'	-	-	
GAMMA	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	TMA	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED	RRH	
LTE 1900	20.	62'	1	ALU AA	3JR52703AAAA	NONE		FIBER			INTERNA	
LTE 700	7 20	62	'	ALO M	301(32/03/4/44	NONE		FIBER		_	1	
LTE WCS	20.	62'	1	COMMSCOPE	SBJAH4-1D65C-DI	NONE	2	7/8"	190'	0	1	
GSM 850	20	02	'	COMMOCUPE	JUNE I DOJU-DE	NONE	] ~	′′°	190		-	
UMTS 1900	20.	65'	1	KATHREIN	742-264	(2) LGP-21401	2	7/8"	100'	2		
UMTS 850	7 20	65	'	KAIHKEIN	/42-204	NONE	] ~	//°	190'	2	_	



24"x36" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0"

			EX	ISTING ANTE	ENNA CONFIGU	RATION AND SCHEDI	JLE		RFDS V	3.0 DATED 0:	2/23/16
ALPHA	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ТМА	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXERS	RRH
LTE 1900	400*			ALU AA	7.10507071111	NO.	5.050				INTERNA
LTE 700	120*	65'	1	ALU AA	3JR52703AAAA	NONE		FIBER		_	1
GSM 1900	120°	65'	1	KATHREIN	742-264	(2) CS72993.08	- 2	7/8"	190'	2	-
GSM 850						NONE					
UMTS 1900	140*	65'	1	KATHREIN	742-264	(2) LGP-21401	- 2	7/8"	190'	2	-
UMTS 850						NONE					
BETA	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	TMA	NUMBER OF COAX	COAX ø	COAX LENGTH	DIPLEXED	RRH
LTE 1900	210	051		ALU AA	3JR52703AAAA	NONE					INTERNA
LTE 700	7 210	65'	ľ	ALO AA	JURS27USAAAA	NONE		FIBER	FIBER		1
UMTS 1900	040*	65'	1	KATHREIN	742-264	(2) LGP-21401	- 2	7/8"	190'	2	-
UMTS 850	210*					NONE					
GSM 1900	210°	65'	1	POWERWAVE	7721	(2) CS72993.08	1	7/8"	190'	1	-
GSM 850	210°	65'	1	KATHREIN	739-684	NONE	1	7/8"	190'	1	-
GAMMA	AZIMUTH	RADCENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ТМА	NUMBER OF COAX	COAX Ø	COAX LENGTH	DIPLEXED	RRH
LTE 1900	201	65'		ALU AA	3JR52703AAAA	NONE	FIRE				INTERNA
LTE 700	20*	55	'					FIBER		_	1
GSM 1900	330*	65'	1	KATHREIN	742-264	(2) CS72993.08	- 2	7/8"	190'	2	-
GSM 850						NONE					
UMTS 1900		251		KATHREIN	742-264	(2) LGP-21401	- 2	7/8"	190'	2	-
UMTS 850	20*	65'	1			NONE					



24"x36" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0"

2

PROPOSED ANTENNA CONFIGURATION



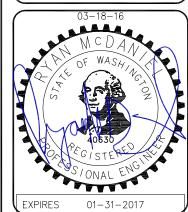




RFDS: V 3.0 DATED: 02/23/16

# **SB13 CARILLON POINT**

2000 CARILLON POINT KIRKLAND, WA 90833 KING COU NTY



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Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF
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ANTENNA CONFIGURATIONS

RF-1

GLOTEL PROJECT #:

EXISTING ANTENNA CONFIGURATION

#2 AWG GROUND RING

FIELD VERIFY & TIE INTO

1) CADWELD (TYP.) SEE SHEET E-2.

**GENERAL NOTES:** 

2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR

GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.

ALL GROUND CONNECTIONS SHALL BE CADWELD. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.

4. CONTRACTOR TO VERIFY AND TEST GROUND SOURCE, GROUNDING AND OTHER

5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.

ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED AT&T MOBILITY, REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RINGS.

OPERATIONAL TESTING WILL BE WITNESSED BY VERIZON WIRELESS, REPRESENTATIVE.

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS. 7. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
  - 8. USE PANI SCHEME FOR LOADING GROUNDS ON MGB AS DISCUSSED IN NSTD 119, 33 & 36.

### **GROUND ROD NOTES:**

- 1. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.







RFDS: V 3.0 DATED: 02/23/16

**SB13** 

CARILLON POINT

2000 CARILLON POINT KIRKLAND, WA 90833 KING COU NTY



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Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF		
0	03/18/16	ISSUED FOR 100% CD REVIEW	JPH		

GROUNDING SCHEMATIC

SHEET

J5568

	REVISIONS					
REV.	DATE	DESCRIPTION	BY			
Α	03/08/16	ISSUED FOR 90% CD REVIEW	AF			
0	03/18/16	ISSUED FOR 100% CD REVIEW	JPH			

E-1

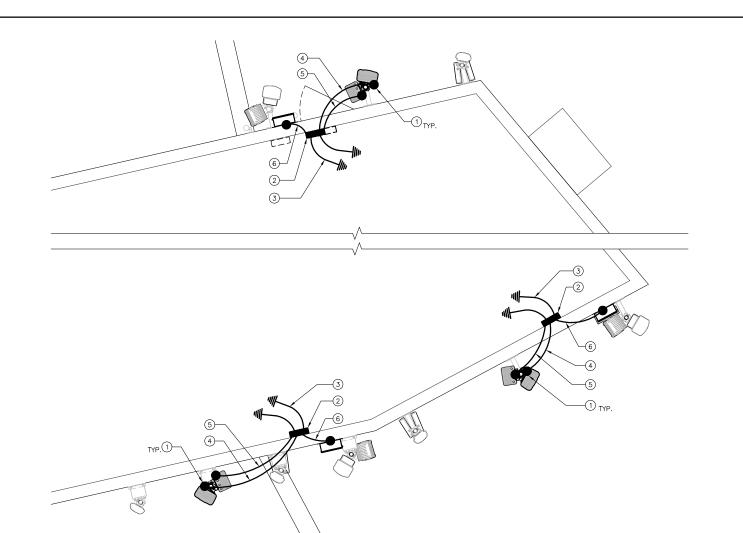
GLOTEL PROJECT #:

3 #2 AWG GROUND FROM ANTENNA GROUND BAR TO MAIN SITE GROUND BAR (FIELD VERIFY). SEE SHEET E-2 4 #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-2.

KEY NOTES:

 $\fi$  #6 AWG RRH MOUNT GROUND TO ANTENNA GROUND BAR (TYP). SEE SHEET E-2

 $\bigcirc$  EXISTING ANTENNA SECTOR GROUND BAR (FIELD VERIFY) SEE DETAIL SHEET E-2



24"x36" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0"

ANTENNA SCHEMATIC GROUNDING PLAN

